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15CS553

Fifth Semester B.E. Degree Examination, Jan./Feb. 2021
Advanced Java and J2EE

Time: 3 hrs. Max. Marks: 80

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Define with example for each of the following : (08 Marks)
   i) Autoboxing/unboxing   ii) Type wrapper.
   b. List and explain exceptions and methods of annotations with example. (08 Marks)

OR

2 a. Define Enum. Write a program to display the enumeration constants using values( ) and valueOf ( ) method. (08 Marks)
   b. How Annotations are obtained at runtime by use of reflection. (08 Marks)

Module-2

3 a. Explain exception and methods that are provided in collection interface. (08 Marks)
   b. List the recent changes made to collection in collection frameworks and explain. (08 Marks)

OR

4 a. Write a program to demonstrate the list interface using ArrayList class. (08 Marks)
   b. What are the exceptions and methods ins Map interface? (08 Marks)

Module-3

5 a. Explain the different types of string constructors with example. (08 Marks)
   b. What are the methods to modify a string with example? Explain each. (08 Marks)

OR

6 a. Explain String Buffer in detail. (08 Marks)
   b. Define String Handling. Explain special string operations with example. (08 Marks)

Module-4

7 a. Explain the life cycle of Servlets. (08 Marks)
   b. List and explain the core classes and interfaces that are provided in javax.servlet package (08 Marks)

OR

8 a. What is JSP tag? Explain the different types of JSP tags. (08 Marks)
   b. What is Cookie? Explain the working of Cookie in JAVA with code snippets. (08 Marks)

Module-5

9 a. Write a program to execute a database transaction. (08 Marks)
   b. Explain JDBC multifier architecture with neat diagram i.e, driver types? Detail. (08 Marks)

OR

10 a. Describe the various steps of JDBC process with code snippets. (08 Marks)
    b. Write a note on Database metadata object methods and Resultset metadata object methods. (08 Marks)

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